GDAAC Notes for
MODIS Technical Team Meeting (02/12/98)

ECS-SYSTEM — STATUS: RED

- Drop 3.02 checkout complete.
- --> Ingest is randomly, but frequently, core dumping. Analysis is underway; possible causes are being investigated.
- --> ECS has implemented new, faster processes to respond to DAAC emergencies and to implement custom s/w patches.

ECS-SSIT — SSIT STATUS: RED

- --> SDP Toolkit problem discovered when comparing PGE02 log files from Phase I Integration with log files provided by MODIS SDST. Phase II Integration is on hold until this problem is resolved. Analysis is underway to find the cause of the differences.
- --> Candidate NCRs for Drop (patch) 3.04 distributed to MODIS SDST for review to ensure patch will not adversely impact ongoing MODIS Version 2 SSI&T at GDAAC. Note that Drop (patch) 3.03 contains only Landsat 7-related changes.

-->MAPI — SSIT STATUS: YELLOW

- --> Delivered (2/11/98); Inspection in progress (2/11/98)
- --> Directory structure and filename extensions are not compliant with SSI&T Agreement. Impact and DAAC response are TBD.

-->SDSTTK — SSIT STATUS: YELLOW

- --> Delivered (2/11/98); Inspection in progress (2/11/98)
- --> Directory structure not compliant with SSI&T Agreement. Impact and DAAC response TBD.

PGE01 — SSIT STATUS: RED

Problem:

* MAPI and SDST Toolkit needed to build and run PGE01. Items yet to complete Inspection and build at DAAC. These must be built and successfully tested before procceeding with Integration.

Prohibited function found in inspection phase (atexit. Discussions are in progress with SDST to find out why the function is being used..

* The metadata files created by PGE01 do not match the ESDTs baselined in Release B. The data server relies on the metadata files to know how to insert products into its archive; at present, the data server will not be able to archive the output products created by PGE01 due to this discrepancy. Integration II cannot complete until this is resolved.

- --> Delivered (2/6/98); Inspection completed (2/9/98)
- DAAC is providing (0.75 FTE) to assist with PGE01 functionality and optimization at SDST's request

PGE02 — SSIT STATUS: RED

Problem:

DAAC cannot commission PGE for operations without error list documentation, lien pending; resolution schedule pending SDST communication with algorithm developers.

* The metadata files created by PGE01 do not match the ESDTs baselined in Release B. The data server relies on the metadata files to know how to insert products into its archive; at present, the data server will not be able to archive the output products created by PGE01 due to this discrepancy. Integration II cannot complete until this is resolved.

- Delivered (1/29/98); Inspection completed (2/2/98); Integration I completed (2/4/98)
- --> Integration II in progress (2/12/98)

PGE07 — SSIT STATUS: YELLOW

Problem: error list documentation (see PGE02 description)

- Delivered (12/5/97); Inspection completed (12/8/97); Integration I completed (12/13/97)
- PGE patch requested (12/17/97); patch delivered (1/20/98); regression testing completed (1/26/98)
- Integration II pending checkout of Drop 3.02 using PGE02

PGE11 — SSIT STATUS: YELLOW

Problem: patch pending from science developer; must be coordinated with SDST

- Delivered (1/7/98); Inspection completed (1/15/98); Integration I completed (1/16/98)
- Integration II pending patch from developer and checkout of Drop 3.02 using PGE02
- --> Patch delivered (2/4/98); Installation and regression testing completed (2/6/98)
- --> Patch pending (2/12/98)

PGE08 — SSIT STATUS: YELLOW

Problem: error list documentation (see PGE02 description)

- Delivered (1/13/98); Inspection completed (1/15/98); Integration I completed 1/21/98
- Integration II pending checkout of Drop 3.02 using PGE02

V2 SSIT AGREEMENT — IN PROGRESS SINCE 9/97

- Baseline agreement pending SDST feedback of 1/9/98
- PGEs delivered prior to mutually baselined agreement or non-compliant with agreement may require remedial work at the DAAC
- DAAC made final baseline modifications based on discussions with SDST; document provided to SDST 1/30/98 for sign-off; signatures pending.
- --> DAAC working to current Agreement as *de facto* baseline. (1/30/98)

--> GDAAC/MODIS OPERATIONS AGREEMENT

- --> GDAAC developed draft, circulated for internal edits; edits being made by Stuart Frye. Stuart will be the active Point of Contact for revisions to the document until it is signed. Draft due to MODIS & GDAAC for comment by 2/27/98.

--> GDAAC/MODIS SCIENCE AGREEMENT

- --> Need for this document was identified within the GDAAC while drafting the GDAAC/MODIS OA; this document will detail the working agreements between the GDAAC MODIS Data Support Team and the MODIS Science Team, including SDST. These interactions include QA metadata updates and interactions regarding fixes for failed PGEs, among others. An outline is being drafted by Stuart Frye; will be circulated for comment to MODIS & GDAAC 2/20/98.

CONCERNS:

- PGE01 (V2.1) availability at launch. V2.1 needed by 4/1/98 to complete SSIT and available for system certification tests. This is a cutoff date and allows little or no room for error to prepare for system certification tests.
- PGE11 is the only PGE to date to deliver partial Error List. Presently only one element of four is required (Potential PGE errors); other three elements filled in as they become available (source module, meaning of error, operator action).

Number of SSI&T problems reported to date.

	Number of Deliveries/ Patches	Date Completed	Cat. 1 open	Cat. 1 closed	Cat. 2 open	Cat. 2 closed	Cat. 3 open	Cat. 3 closed
PGE08	1	1/13/98						
Inspection		1/15/98	1	2		1	3	1
Integration I		1/21/98					1	
Integration II								
PGE07	1	12/5/97						
Inspection		12/8/97		5	1	2	1	
Integration I	1	1/27/98				2	2	2
Integration II								
PGE11	1	1/7/98						
Inspection		1/15/98		5		1	2	1
Integration I	1	2/6/98		1		1	1	
Integration II								
PGE02	1	1/29/98						
Inspection	1	2/2/98	1	2			3	4
Integration I		2/4/98						
Integration II							1	
PGE01	1	2/6/98						
Inspection		2/9/98			2			
Integration I								
Integration II							3 (v1)	1 (v1)
MAPI	1	2/11/98						
Inspection				1	1		2	
DAACbuild							1 (v1)	
SDSTTK	1	2/11/98						
Inspection				1			2	
DAACbuild								

(S#) indicate the highest severity level of an open problem report. (1-5, 1 most severe)

BACKGROUND

SSIT Status Codes:

Complete PGE is ready to process data at launch in validation mode or ops mode

Green No problems or Category 1 fixes only; either no liens on PGE or liens worked post-launch

Yellow Problems in test; Category 2 or 3 fix pending; liens placed on PGE with workoff schedule; liens worked off by launch

Red SSIT has stopped; PGE will not run in its current form; fix required before testing can continue

Categories of PGE fixes at the DAAC:

Category 1: GDAAC SSIT staff fix the problem in the DAAC baseline, report action to SDST and continue testing.

Category 2: SDST directs GDAAC SSIT staff, possibly based upon GDAAC recommendation, to fix the problem in the DAAC baseline and continue testing.

Category 3: GDAAC SSIT staff provides Baselined Algorithm Package to SDST to port back to TLCF for bug fixes and possible retesting. SDST then makes redelivery to DAAC.

Phases of SSI&T:

Inspection: Delivered Algorithm Package is inspected for contents and completeness. PGE is inspected for documentation, formats, file structures, and standards compliance.

Integration-I: PGE is built and run from the command line. Generated data product(s) are verified with SDST supplied comparison file(s). (**DAACbuild** for a library)

Integration-II: PGE is registered into ECS, including population of PDPS database. Test data is inserted into the Data Server for staging into production. PGE execution is planned and scheduled through ECS PDPS utilizing Autosys scheduler. Generated product(s) inserted into Data Server. Generated data product is retrieved from Data Server for verification.

Note: Drop 3 is our target for full SSIT as this will include a database schema change and include updated ESDTs. The ESDTs and related files (MCFs) associated with these PGEs integrated into Drop 3 should not change from integration through launch.

ECS Standard Production: Overview of steps from Production Request to PGE Execution